

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

50. (Previously Presented) A disposable, wearable medicine dispensing device comprising a housing;  
means for attaching said housing to the skin of a user of said device,  
a medicine container disposed in the housing;  
a flexible piston rod having an outer thread pattern on at least a portion thereof, the piston rod being movable in a forward longitudinal direction to force medicine from the medicine container;  
a ratchet wheel having an inner thread pattern on a central aperture to mate with the outer thread pattern of the flexible piston rod such that rotation of said ratchet wheel in a forward rotational direction displaces the flexible piston rod in the forward longitudinal direction;  
a pivotable body disposed in the housing and adjustable between a forward position and a reset position, wherein adjustment of the pivotable body from the reset position to the forward position causes the ratchet wheel to rotate in said forward rotational direction;  
a spring device to bias said pivotable body toward the forward position; and  
an actuation system to controllably adjust the pivotable body toward the reset position, the actuation system comprising:  
a thread member coupled to the pivotable body, and  
a battery powered actuator coupled to the thread member so as to apply a tension force to the thread and thereby adjust the pivotable body.

51. (Currently Amended) The dispensing device of claim 50, further comprising a pawl member [[is]] disposed on a pivotable body.

52. (Previously Presented) The dispensing device of claim 50, wherein the flexible piston rod comprises rod segments hinged together, the outer thread pattern being on at least a portion of the rod segments.

53. (Previously Presented) The dispensing device of claim 52, wherein rod segments are connected by hinges that comprise integrally formed, bendable material.

54. (Previously Presented) The dispensing device of claim 53, wherein the bendable material comprises a material selected from the group consisting of Nylon or POM (polyoxymethylene).

55. (Previously Presented) The dispensing device of claim 52, wherein the outer thread pattern is a discontinuous thread pattern.

56. (Previously Presented) The dispensing device of claim 50, wherein the battery powered actuator is a solenoid.

57. (Currently Amended) The dispensing device of claim 56, wherein the solenoid actuates in [[is]] a linear motion to apply the tension force to the thread member.

58. (Currently Amended) A disposable, wearable medicine dispensing device, comprising:  
a wearable pump housing;  
an adhesive layer coupled to the housing so as to affixed affix said housing to skin of a user,  
a medicine container disposed in the housing;  
a flexible piston rod having an outer thread pattern on at least a portion thereof, the piston rod being movable from a flexed configuration in the housing toward a forward longitudinal direction relative to the medicine container to force medicine from the medicine container;

a ratchet wheel having an inner thread pattern on a central aperture to mate with the outer thread pattern of the flexible piston rod such that rotation of said ratchet wheel in a forward rotational direction displaces the flexible piston rod in the forward longitudinal direction;

a pivotable body disposed in the housing and pivotable between a forward position and a reset position, wherein adjustment of the pivotable body from the reset position to the forward position causes the ratchet wheel to rotate in said forward rotational direction;

a spring device to bias said pivotable body toward the forward position; and

an actuation system to controllably adjust the pivotable body toward the reset position, the actuation system comprising:

a thread member coupled to the pivotable body, and

a battery-powered mechanical actuator to move an end portion of the thread

member so as to apply a tension force to the thread member and thereby adjust the pivotable body.

59. (Currently Amended) The device of claim 58, wherein the wearable pump housing is wearable on a user's body and dispenses insulin to the user via a catheter tube while a handheld controller device having a user-interface buttons and a display communicates with the disposable dispensingpump device.

60. (Currently Amended) The device of claim 59, wherein the handheld controller device [[that]] is connectable to a computer for transmission of data.

61. (Previously Presented) The device of claim 59, wherein the handheld controller device receives user input indicative of glucose level measurement results.

62. (Currently Amended) The device of claim 61, wherein the disposable dispensingpump device dispenses insulin to the user at a new dosage rate in response to the user input indicative of glucose level measurement results.

63. (Previously Presented) The dispensing device of claim 58, wherein the flexible piston rod comprises rod segments hinged together, the outer thread pattern being on at least a portion of the rod segments.

64. (Previously Presented) The dispensing device of claim 63, wherein the outer thread pattern is a discontinuous thread pattern.

65. (Previously Presented) The dispensing device of claim 58, wherein the battery-powered mechanical actuator is a solenoid.

66. (New) A disposable, wearable medicine dispensing device, comprising:

a wearable pump housing;

a medicine container disposed in the housing;

a flexible piston rod having an outer thread pattern on at least a portion thereof, the piston rod being movable from a flexed configuration in the housing toward a forward longitudinal direction relative to the medicine container to force medicine from the medicine container;

a ratchet wheel having an inner thread pattern on a central aperture to mate with the outer thread pattern of the flexible piston rod such that rotation of said ratchet wheel in a forward rotational direction displaces the flexible piston rod in the forward longitudinal direction;

a pivotable body disposed in the housing and pivotable between a forward position and a reset position, wherein adjustment of the pivotable body from the reset position to the forward position causes the ratchet wheel to rotate in said forward rotational direction;

a spring device to bias said pivotable body toward the forward position; and

an actuation system to controllably adjust the pivotable body toward the reset position, the actuation system comprising:

a thread member coupled to the pivotable body, and

a battery-powered mechanical actuator to move an end portion of the thread member so as to apply a tension force to the thread member and thereby adjust the pivotable body.

67. (New) The device of claim 66, wherein the wearable pump housing is wearable on a user's body and dispenses insulin while a handheld controller device having a user-interface buttons and a display communicates with the disposable dispensing device.

68. (New) The device of claim 67, wherein the handheld controller device receives user input indicative of glucose level measurement results.

69. (New) The device of claim 68, wherein the disposable dispensing device dispenses insulin to the user at a new dosage rate in response to the user input indicative of glucose level measurement results.